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Water-i.d.®

Pool-i.d.®

MAIN CATALOGUE
WATER - ANALYSIS

Quality reagents
made in Germany

WATER TESTING EQUIPMENT 2014

Water-i.d.®

Pool-i.d.®

Quality „Made in Germany“

High quality products and continuous quality control are not just slogans at Pool-i.d. they are our policy.

At our head office in the technology region of Karlsruhe, our laboratory team are constantly developing new formulations and improving existing products.

Our Quality Control System ensures that our production and development processes are strictly monitored in accordance with International Standards at our German facility. Here, the formulae are developed, tablets are pressed and blister packed to ensure maximum stability and shelf life.

Our new world leading photometer PrimeLab MultiTester is assembled and thoroughly tested at our German Headquarters prior to delivery to our many customers

'Quality Made in Germany'

Quality reagents made in Germany

Dr. Jens Mathes
Head of Pool-i.d. Group,
Development Department

Welcome to Pool-i.d.

Water - Testing - Equipment

Working with water means assuming responsibility.
To manufacture equipment to determine water quality means to assume responsibility and to ensure that our products do everything to measure up to the task

The Pool-i.d. Group have been assuming responsibility for over a decade.
In addition to conformance to legal requirements and standards, Pool-i.d. is driven to improve current processes and equipment to a higher level of technical excellence.

'Standing still means going backwards.' Pool-i.d. leads the way with continuous innovation to raise the standards for the future. Whether it is the 'push through' tablet reagents or the foil wrapped test strips we continue to produce award winning products, most notably winning the GOLDEN WAVE Innovations award.
Pool-i.d SETS THE STANDARDS.

In 2013, and for the first time in this catalog: The "PrimeLab Multitest" a true world leading product with technology never before used in water analysis as a result of a joint development with our partner JENCOLOR. An „All-in-1" Photometer!

We are grateful to all those who share our conviction. Our customer relationships and support has enabled our young company to provide a quality, innovative product range for the global water analysis market.

Andreas Hock (MD Pool-i.d. Germany)

Stephen G. Cooper (MD Pool-i.d. UK Ltd.)

Water...

All that you ever wanted to know about water.

• H2O
Chemical compound from hydrogen and oxygen, boiling point = 100ºC, freezing point = 0ºC, highest density of 1g/cm3 = 4 degrees, most important solvent (Encyclopedia).

• More than 71%
Of the earth's surface is covered by water. Covering more than roughly 1,384,100,000 km³ of the earth's surface, water is the most prevalent natural substance of which 97.5% is salt water in the world's oceans.

Less than 1% is left for soil moisture content, ground water, lakes and rivers, atmosphere, and living creatures!
One water molecule remains in the ocean on average for roughly 3,000 years before it evaporates again. Around 800 Litres falls yearly on 1 m² (in Germany).

Water does not disappear but has been moving in all types of circulatory systems since primeval times.

Worldwide rivers transport 39,000 km³/year, which corresponds to 127,000,000,000 Litres/Day.

EU-Water-Charta (Strasbourg, 1986)

"There is no life without water.
It is a treasure indispensible to all human activity."

Content

Pooltester	**Page**
General Information	6 - 7
Product Overview	8 - 9
Reagents for Pooltester	10 - 11
Test Strips	
General Information	12 - 13
Product Overview	14 - 15
Comparator	
General Information	16 - 17
Product Overview	18 - 19
Reagents for Comparator	20 - 21
Special Processes	
General Information	22 - 23
Product Overview	24 - 25
Reagents for Special Processes	26 - 27
Balanced Water Kits	
General Information	28 - 29
Product Overview	30 - 31
Reagents for Balanced Water Kits	32 - 33
Photometer	
General Information	34 - 35
Sensor and Software	36 -37
Technical data	38 - 39
Parameters and Reagents	40 - 43
Electronic Meter	
General Information	44 - 45
Product Overview	46 - 47
Bacteria Tests	
General Information	48 - 49
Product Overview	50 - 51
Reference	
Knowledgebase/Uplinks	52 - 53
Terms and Conditions	54 - 55

pH
Chlorine
Bromine
Active Oxygen (O_2)
Hydrogen Peroxide (H_2O_2)
Alkalinity (Acid capacity)
PHMB
QAC
Copper
Zinc

Background

Pooltesters are mainly used in the wellness sector and, even if the name doesn't hint at it, they are also used for the analysis of drinking and industrial water.
In many countries, for example, drinking and industrial water must be disinfected with chlorine which requires that they be subjected to consistent controls.

Hotels worldwide already use the Pool-i.d. Pooltester for guest swimming pools, and also to determine the quality of their drinking and general waters.

Pool-i.d. Pooltesters are even used by well-known international aid organizations to control drinking water plants in crisis regions.

Here too, people rely on Pool-i.d.'s quality standards.

"Water is the driving force of nature"
(Leonardo da Vinci)

Pooltester

Pooltester / testblocks for the analysis of pool, drinking and industrial waters.

Pooltesters are test devices which operate with the help of visual comparisons.

The water to be tested is placed into the tester, rapidly dissolving (RAPID) reagent tablets are added, and the water changes colour.

The value is determined by comparing the coloured test water with the scale on the tester. The finer the scale, the easier it is to classify the test results.

Pool-i.d. Pooltesters distinguish themselves through their very finely graduated colour scales.
The Pooltester "pH/Chlorine/Bromine" has 16 comparison colours to identify chlorine.

Chlorine and bromine are detected with the aid of DPD N° 1 tablets, both using the same comparative-colour-scale.

Most of the Pool-i.d. Pooltester come with 30 tablets per parameter.

Mini-Tester

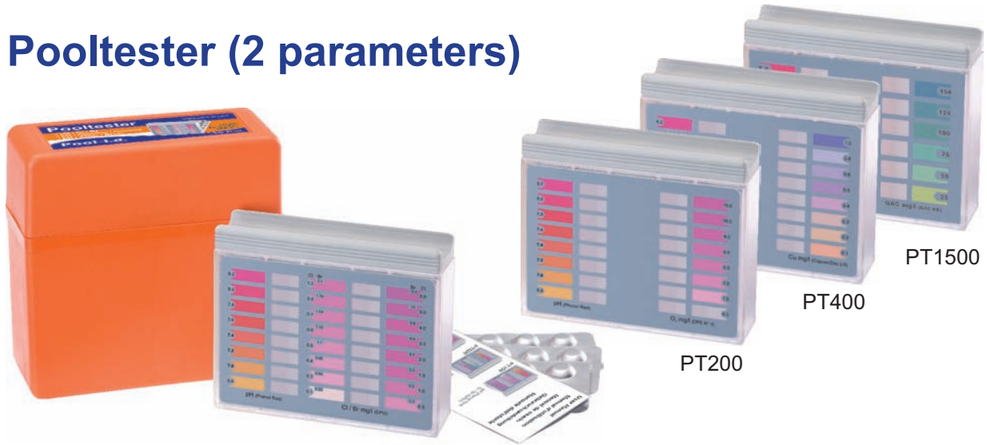
The same Pooltester principles described above apply to Pool-i.d. Mini-Testers. The comparative scale is not as intensively graduated and Pool-i.d. Mini-Testers come with 20 tablets per test parameter.

Distinguishing Features
Perfectly coordinated and broad colour comparison scales distinguish the Pool-i.d. Pooltesters!

Shelf-life
Not only their ease of use (push-through system) distinguishes the aluminium blister packs in which the Pooltester and Mini-Tester reagent tablets are packaged. They also stand out for their long shelf-life – 5 to 10 years after the date of production!

Compatibility
Pool-i.d. Pooltesters can also use tablets made by other manufacturers because technical standards define how measurements should be made for pH, chlorine, bromine, and active oxygen values with Phenol Red (pH-value), DPD N° 1 (free chlorine and/or bromine), DPD N°3 (together with DPD N° 1 = total chlorine) and DPD N° 4 (active oxygen).
The user can use Pool-i.d. reagent tablets with Pooltesters made by other manufacturers. A study by the Fresenius Institute (SGS) in March 2006 supports the fact that Pool-i.d. reagent tablets comply with the appropriate standards (www.pool-id.com/de/downloads/fresenius.pdf).

Pooltester (2 parameters)



PT100

PT200

PT400

PT1500

Pooltester (3 parameters)

PT500

PT300

Mini-Tester

PTM100

PTM200

Item No.	Product description	N° of Tablets	Type of Tablets	Measurement Range		Unit
PT100	Pooltester for the measurement of **pH** and **chlorine** or pH and **bromine** values. 8 pH scale values, 16 Chlorine/Bromine scale values	30 / 30	Phenol Red (30) DPD N°1 (30)	pH Cl (f/c) Br	6.8 - 8.2 0.1 - 6.0 0.22 - 13.2	12
PT500	Pooltester for the measurement of **pH**, **chlorine** or **bromine**, and **alkalinity** values. Each 8 scale values	20 / 20 / 20	Phenol Red (20) DPD N°1 (20) Alkatest (20)	pH Cl (f/c) Br Alk	6.8 - 8.2 0.1 - 6.0 0.22 - 13.2 0 - 250	12
PT200	Pooltester for the measurement of **pH** and **active oxygen (0_2)** values. Each 8 scale values	30 / 30	Phenol Red (30) DPD N°4 (30)	pH O_2	6.8 - 8.2 0 - 15	12
PT300	Pooltester for the measurement of **pH**, **Hydrogen Peroxide** (H_2O_2) and **PHMB** (Biguanides) values. Each 8 scale values	20 / 20 / 20 / 20	Phenol Red (20) Hyd. Peroxide HR (20) Acidifying PT (20) PHMB (20)	pH PHMB H_2O_2	6.8 - 8.2 10 - 100 5 - 50	12
PT400	Pooltester for the measurement of **pH** and (free) **Copper/ Zinc** values (differential process). Each 8 Scale values, Incl. pestle to crush the tablets	20 / 20 / 20 / 20	Phenol Red (20) Copper/Zinc LR (20) EDTA (20) Dechlor (20)	pH Cu	6.8 - 8.2 0.0 - 1.0	12
PT1500	Pooltester for the measurement of **QAC** (Quatern. Ammon. Comp.) and **pH** values. 8 pH scale values, 6 QAC scale values	20 / 20 / 20	Phenol Red (20) QAC HR (20) Acidifying GP (20)	pH QAC	6.8 - 8.2 25 - 150	12
PTM100	Mini-Tester for the measurement of **pH** and **Chlorine** or pH and **Bromine** values. Each 6 scale values.	20 / 20	Phenol Red (20) DPD N°1 (20)	pH Cl (f/c) Br	6.8 - 8.2 0.3 - 3.0 0.66 - 6.0	20
PTM200	Mini-Tester for the measurement of **pH** and **Active Oxygen** values (O_2). Each 6 scale values	20 / 20	Phenol Red (20) DPD N°4 (20)	pH O_2	6.8 - 8.2 1.5 - 15.0	20

Reagents for Pooltester

Quality reagents made in Germany

Item No.	Type	Category	Measurement Range	for Pooltester PT100	PT200	PT300	PT400	PT500	PT1500	PTM100	PTM200
TbsRpH...	Phenol Red	RAPID**	pH value (6.5 - 8.4)	•	•	•	•	•		•	•
TbsRD1...	DPD N°1	RAPID**	free Chlorine / Bromine (0.0 - 6.0 Cl mg/l / 0.0 - 13.2 Br mg/l)	•				•		•	
TbsRD1HC...	DPD N°1 High Calcium		free Chlorine / Bromine (0.0 - 6.0 Cl mg/l / 0.0 - 13.2 Br mg/l)	•				•		•	
TbsRD3...	DPD N°3	RAPID**	Total / combined Chlorine*** (0.0 - 6.0 Cl mg/l)	•				•		•	
TbsRD4...	DPD N°4	RAPID**	Active Oxygen (O_2) (0.0 - 15.0 O_2 mg/l)		•						•
TbsRAT...	Alkatest	RAPID**	Alkalinity (Quick Test) (0 - 240 mg/l)					•			
TbsRHP...	Hyd.Peroxide HR		Hydrogen Peroxide (H_2O_2) (5 - 50 mg/l)			•					
TbsHAFP...	Acidifying PT	RAPID**	Auxiliary Tablet to Measure H_2O_2 (pH-Buffer)			•					
TbsRPB...	PHMB	RAPID**	PHMB (Biguanides) (10 - 100 mg/l)			•					
TbsPCZ...	Copper/Zinc LR	---	Copper / Zinc (Differential Meas.) (0.0 - 1.0 Cu/Zn mg/l)				•				
TbsHED...	EDTA	---	Auxil. Tablet to Measure Copper/Zinc (Eliminating Zinc)				•				
TbsHDC...	Dechlor	---	Auxil. Tablet to Measure Copper/Zinc (Eliminating Chlorine)				•				
TbsRQA...	QAC (HR)	RAPID**	Quatern. Ammonium Compounds (0 - 150 mg/l)						•		
TbsHAFG...	Acidifying GP	---	Auxil. Tablet to Measure QAC						•		

available in boxes of 50 / 100 / 200 / 250 / 500 tablets

** rapidly soluble / self disintegrating.

*** DPD N° 1 + DPD N° 3 measure total Chlorine in the same water sample. The combined Chlorine is determined from the difference between free Chlorine (DPD N° 1) and total Chlorine (DPD N° 1 + DPD N° 3).

TbsRpH500

PT100

TbsRD1pH60

Refill-Packs

Item No.	Reagent 1	Reagent 2	Reagent 3	Reagent 4	Tablet-Amount	for Pooltester PT100	PT200	PT300	PT400	PT500	PT1500	PTM100	PTM200
TbsRD1pH60	Phenol Red RAPID**	DPD N°1 RAPID**			30 / 30	•						•	
TbsRD4pH60	Phenol Red RAPID**	DPD N°4 RAPID**			30 / 30		•						•
TbsRD1pHAL60	Phenol Red RAPID**	DPD N°1 RAPID**	Alkatest RAPID**		20 / 20 / 20					•			
TbsRPBO2pH80	Phenol Red RAPID**	Hyd.Peroxide HR	PHMB RAPID**	Acidifying PT RAPID**	20 / 20 / 20 / 20			•					
TbsRCupH80	Phenol Red RAPID**	Copper/Zinc LR RAPID**	EDTA	Dechlor	20 / 20 / 20 / 20				•				
TbsRQAAF60	Phenol Red RAPID**	QAC (HR) RAPID**	Acidifying GP		20 / 20 / 20						•		

Test Strips

pH
Chlorine
Bromine
Active Oxygen (O_2)
Hydrogen Peroxide (H_2O_2)
Alkalinity (Acid capacity)
QAC
Salt (NaCl)
Total Hardness
Cyanuric Acid (Stabilizer)

Quick, Simple, Optimal …

The test strips too involve the measurement of water values against visual assessments of the results on a scale.

In contrast to Pooltesters and Comparators, however, test strips do not work with separately added reagents (tablets) but through the chemicals already applied on the strips themselves. As a rule these are pads which have been soaked in chemicals which colour themselves upon contact with the water being measured. The resulting colour is then compared with the scale provided on the label.

Background

Test strips for the measurement of water values are enjoying greater popularity, because they provide a simple and rapid method for quick analysis.

When compared to the visual measurements of the Pooltester, there is naturally a significant disadvantage in the size of the coloured field and thus in the possibility of making an exact comparison on the colour scale.

The shelf-life of the Test Strips is substantially less than that of the reagent tablets that are being used in the Pool Testers.
Yet this is compensated for by the simplicity of use, the ability to obtain rapid measurements, and optimal pricing.

Distinguishing Features

The EASY-DIP Test Strips are packed ten each in foil packs which guarantee that even the last strip can be used (see shelf-life).
The “3 step” instructions for use on the label make the product easy to use.

Shelf-life

Until now, the problem with using test strips has been that the bottle provided insufficient protection and the dry pouch placed inside could only guarantee at most 18 months of use.
Add to this that one could assume the remaining strips would start losing their effectiveness after the bottle was opened because of the infiltration of humidity.
The Pool-i.d. EASY-DIP Test Strips are packaged 10 each in foil packs.

In each can, there are 5 foil packs, that is 50 Strips.
This protection guarantees a 2 1/2 year shelf-life from the date of manufacture, thus ensuring use to the last Strip.

“Water keeps us together”
(unknown)

Teststrips (1 Parameters)

TSL600

Teststrips (3 Parameters)

TSL100 TSL200 TSL300

Teststrips (5 Parameters)

TSL700

EASY-Dip

Item No.	Product Description	N° of Test Strips	Shelf-Life in Years	Measurement Range	
TSL100	3-in-1 Test Strips for the measurement of **pH**, free **Chlorine**, **Bromine** and **Alkalinity** values. Each 10 of 50 Strips per can are packed in foil.	50	3	pH Cl (f) Br Alk	6.8 - 8.2 0.0 - 5.0 0.0 - 11.0 0 - 240
TSL100Q	3-in-1 Test Strips for the measurement of **pH**, free **Chlorine**, **Bromine** and **QAC** values (Algicides). Each 10 of 50 Strips per can are packed in foil.	50	3	pH Cl (f) Br Quat	6.8 - 8.2 0.0 - 5.0 0.0 - 11.0 0 - 40
TSL200	3-in-1 Test Strips for the measurement of **pH, Active Oxygen** (0_2 / MPS) and **Alkalinity** values. Each 10 of the 50 Strips per can are packed in foil.	50	3	pH O_2 Alk	6.8 - 8.2 0 - 15 0 - 240
TSL200Q	3-in-1 Test Strips for the measurement of **pH**, **Active Oxygen** (0_2 / MPS) and **QAC** values (Algicides). Each 10 of the 50 Strips per can are packed in foil.	50	3	pH O_2 Quat	6.8 - 8.2 0 - 15 0 - 40
TSL700	5-in-1 Test Strips for the measurement of **pH**, **free Chlorine**, **Bromine Alkalinity, Total Hardness** and **Cyanuric Acid** values. Each 10 of the 50 Strips per can are packed in foil.	50	3	pH Cl (f) Br Alk TH Cyan.A.	6.8 - 8.2 0.0 - 5.0 0.0 - 11.0 0 - 240 40 - 1000 0 - 150
TSL600	Test Strips for the measurement of **Salt (NaCl)**. Each 5 of the 20 Strips per can are packed in foil.	20	1,5	NaCl	0 - 7000
TSL300	Test Strips for the measurement of **pH, Hydrogen Peroxide (H_2O_2)** and **Alkalinity** values. Each 10 of the 50 Strips per can are packed in foil.	50	3	pH H_2O_2 Alk	6.8 - 8.2 0.5 - 100 0 - 240

Comparator

pH
Chlorine
Chlorine Dioxide
Bromine
Copper
Ozone
Cyanuric Acid
Phosphates
Sodium Hypochlorite
Copper/Zinc
Iron
Hyd. Peroxide
Molybdate
Ammonia
QAC
Nitrite

Turn and read.

Like our Pooltesters, Test Strips, and Comparators rely on visual assessment. The measurement result is not detected electronically. The human eye compares the measurement colour that results from adding reagents (e.g. tablets) with a comparative scale (colour disc).

The decisive difference between the comparator and all other visual measurement processes is that this one works with a color scale in the form of a rotating disc. The colour scale is placed around the disc without interrupting the colour and shows all possible colours in the measurement scale.

The water sample with reagents (10ml) is placed next to a reference sample (without reagent) inside the comparator. The appropriate disc is inserted and turned until the colour of the sample corresponds with the colour value on the disc.

Background

Pool-i.d. comparators provide you with access to professional water analysis. While these comparators are also, like Pooltesters, visual measurement devices, the arrangement of the measured colour to the scale – and the determination of the measurement value – is much more precise with comparators because the measurement is compared on a rotating colour scale (colour disc). There are no measurement results “between” individual colour scales.
Ergonomic design and high quality materials also simplify measurements.

Distinguishing Features

The innovation behind Pool-i.d.’s comparators is in the adapter that is included. The adapter extends the sample’s path-length and thus enables a “Multi-Range Reading” without diluting the sample.

Reagents

Depending on the parameters, the Pool-i.d. comparators work with Pool-i.d. reagent tablets or powder packs/foil packs made by wellknown Pool-i.d. partner companies.

“The wise find pleasure in water”
(Confucius)

Single Components

Item No.	Product Description	Measurement-Range	
PCP001	Pool-i.d. Comparator for Pool-i.d. Comparator Discs		
FD50	Disc for pH	pH	6.5 - 8.4
FD100	Disc for Chlorine (Low Range)	Cl	0.0 - 1.0
FD101	Disc for Chlorine (High Range)	Cl	0.2 - 4.0
FD102	Disc for Sodium hypochlorite	NaClO	2 - 18%
FD800	Disc for Bromine	Br	0.2 - 5.0
FD900	Disc for Chlorine-Dioxide	ClO_2	0.0 - 6.65
FD1000	Disc for Ozone	O_3	0.0 - 1.00
FD400	Disc for Copper	Cu	0.0 - 5.0
FD401	Disc for Copper/Zinc (LR)	Cu/Zn	0.0 - 1.0
FD402	Disc for Copper/Zinc (HR)	Cu/Zn	0.0 - 5.0
FD1100	Disc for Cyanuric Acid	Cyn.A.	10 - 80
FD1200	Disc for Phosphates	PO_4	0 - 100
FD1900	Disc for Iron (LR)	Fe	0.05 - 1.00
FD1950	Disc for Iron (HR)	Fe	1 - 10
FD300	Disc for Hyd. Peroxide (HR)	H_2O_2	5 - 50
FD2000	Disc for Molybdate (HR)	H_2MoO_4	5 - 150
FD2100	Disc for Ammonia	NH_4	0 - 1
FD1500	Disc for QAC (HR)	QAC	0 - 200
FD1700	Disc for Nitrite (LR)	NO_2	0.05 - 0.5
SPkv5 SPkv10 SPkv50 SPkv100	5 Plastic Square for Comparator (10 ml) 10 Plastic Square for Comparator (10 ml) 50 Plastic Square for Comparator (10 ml) 100 Plastic Square for Comparator (10 ml)		
SPstr1 SPstr10 SPstr50 SPstr100	1 Plastic Stirring Rod (13 cm) 10 Plastic Stirring Rod (13 cm)) 50 Plastic Stirring Rod (13 cm)) 100 Plastic Stirring Rod (13 cm))		
SPclb1 SPclb10 SPclb50	1 Cleaning Brush 10 Cleaning Brush 50 Cleaning Brush		

PCP001

Sets

Item No.	Product Description	Discs	10 ml Cells	Syringe	100ml tube	Stirring Rod	Cleaning Brush	Reagents
PCK...	Comparator Kit, Black Plastic-Case with: 1 Pool-i.d. Comparator 2 x 10 ml Cell, 1 x Stirring Rod 1 x Cleaning Brush 1 x Disc and Tablets...		2			1	1	plus...
PCE...	Expansion Kit, contains: 1 x 10 ml Cell, 1 x Stirring Rod, 1 x Disc and Tablets ...		1			1		plus...
...FD50	Disc for pH	1						Phenol Red (50 tabl.)
...FD100	Disc for Chlorine (Low Range)	1						DPD N°1/3 (50 tabl. each)
...FD101	Disc for Chlorine (High Range)	1						DPD N°1/3 (50 tabl. each)
...FD102	Disc for Sodium hypochlorite	1		1	1			Chlorine HR KI (50 tabl.) Acidifying GP (50 tabl.)
...FD800	Disc for Bromine	1						DPD N°1(50 tabl.)
...FD900	Disc for Chlorine Dioxide	1						DPD1/Glycine (50 tabl. each)
...FD1000	Disc for Ozone	1						DPD N°1/3 (50 tabl. each) Glycine (50 tabl.)
...FD400	Disc for Copper	1						Copper 1/2 (50 tabl. each)
...FD401	Disc for Copper/Zinc (LR)	1						Copper/Zinc LR (50 tabl.)
...FD402	Disc for Copper/Zinc (HR)	1						Coppe/Zinc HR (50 tabl.)
...FD1100	Disc for Cyanuric Acid	1						CYA test (50 tabl.)
...FD1200	Disc for Phosphate	1						Phosphates Comp. (50 Tbl.)
...FD1900	Disc for Iron (LR)	1						Iron (LR) (50 tabl.)
...FD1950	Disc for Iron (HR)	1						Iron (HR) (50 tabl.)
...FD300	Disc for Hyd. Peroxide (HR)	1						Hyd. Peroxide HR (50 tabl.) Acidifying PT (50 tabl.)
...FD2000	Disc for Molybdate (HR)	1						Molybdate N° 1 (50 tabl.) Molybdate N° 2 (50 tabl.)
...FD2100	Disc for Ammonia (as „N“)	1						Ammonia N° 1 (50 tabl.) Ammonia N° 2 (50 tabl.)
...FD1500	Disc for QAC (HR)	1						QAC HR (50 tabl.) Acidifying GP (50 tabl.)
...FD1700	Disc for Nitrite (LR)	1						Nitrite LR (50 tabl.)

Reagent Tablets for the Comparator

Item No.	Type	Category	Measurement-Range	For Comparator/Set: PCK50...	...FD 100	...FD 101	...FD 102	...FD 300	...FD 400	...FD 401	...FD 402	...FD 800	...FD 900	...FD 1000	...FD 1100	...FD 1200	...FD 1500	...FD 1700	...FD 1900	...FD 1950	...FD 2000	...FD 2100
TbsPpH...	Phenol Red	Photometer*	pH value (6.5 - 8.4)	•																		
TbsPD1...	DPD N°1	Photometer*	free Chlorine / Bromine / Ozone (0.0 - 6.0 Cl mg/l / 0.0 - 13.2 Br mg/l)		•	•						•	•	•								
TbsPD1HC...	DPD N° 1 HC	Photometer*	free Chlorine / Bromine (hard water) (0.0 - 6.0 Cl mg/l / 0.0 - 13.2 Br mg/l)		•	•						•	•	•								
TbsPCLHR...	Chlorine HR (KI)	Photometer*	Sodium hypochlorite (NaClO) (2 - 18%)				•															
TbsPD3...	DPD N°3	Photometer*	total / combined Chlorine*** / Ozone (0.0 - 6.0 Cl mg/l)		•	•																
TbsPCS...	Cyanuric Acid	Photometer*	Cyanuric Acid (0 - 80 mg/l)												•							
TbsRPP...	Phosphates Co.	RAPID*	Phosphates (PO_4) (0 - 100 mg/l)													•						
TbsPILR...	Iron (LR)	Photometer*	Iron (Fe) (0.05 - 1 mg/l)																•			
TbsPIHR...	Iron (HR)	RAPID*	Iron (Fe) (1 - 10 mg/l)																	•		
TbsPCu1...	Copper No. 1	Photometer*	Copper -free- (Cu) (0 - 5 mg/l)						•													
TbsPCu2...	Copper No. 2	Photometer*	Copper -total- (Cu) (0 - 5 mg/l)						•													
TbsPCZLR...	Copper/Zinc LR	Photometer*	Copper/Zinc (Cu/Zn) (0.0 - 1.0 mg/l)							•												
TbsPCZHR...	Copper/Zinc HR	Comparator	Copper/Zinc (Cu/Zn) (0.0 - 5.0 mg/l)								•											
TbsRHP...	Hyd. Peroxide HR	RAPID*	Hydrogene Peroxide (H_2O_2) (2 - 100 mg/l)					•														
TbsHAFP...	Acidifying PT	RAPID*	Auxiliary Tablet to measure H_2O_2					•														
TbsPMDH2...	Molybdate No.2	Photometer*	Molybdate (H_2MoO_4) (5 - 150 mg/l)																		•	
TbsHMDH1..	Molybdate No.1	Photometer*	Auxiliary Tablet to measure Molybdate																		•	
TbsPAM...	Ammonia No.2	Photometer*	Ammonia (NH_4) (0 - 1 mg/l)																			•
TbsHAM...	Ammonia No.1	Photometer*	Auxiliary Tablet to measure Ammonia																			•
TbsRQA...	QAC HR	RAPID	Quat. Ammonia-Compounds (0 - 200 mg/l)														•					
TbsNiLR...	Nitrite LR	Photometer*	Nitrite (NO_2) (0.05 - 0.5 mg/l)															•				
TbsHGC...	Glycine	Photometer*	Auxiliary Tablet to measure Ozone and Chlorine-Dioxide										•	•								
TbsHAFG...	Acidifying GP	Photometer*	Auxiliary Tablet to measure QAC													•						

available in boxes of 50 / 100 / 200 / 250 / 500 tablets and in glass bottles of 250 tablets

Quality reagents made in Germany

*** DPD N° 1 + DPD N° 3 measure total Chlorine in the same water sample. The combined Chlorine is determined from the difference between free Chlorine (DPD N° 1) over total Chlorine (DPD N° 1 + DPD N° 3).

Alkalinity-M
Alkalinity-P
Alkalinity-P ($BaCl_2$)
Calcium Hardness
Total Hardness
Hardness yes/no
Chloride
Cyanuric Acid
Nitrite
Sulphite (LR/HR)
CAS (Cleaning Acid Stregth)

The colour transition in the sample occurs by adding tablets to achieve a colour change.

Background

In this chapter, we define “Special Processes” as methods which are not, or are hardly, offered through classical measurement methods – such as Pooltesters – that is, a special process to determine the values. For example, the Pool-i.d tablet count process (which causes the colour in the sampled water to abruptly change at a point when reagent tablets are continuously added).

“Water is the strongest drink. It drives mills.”
(unknown)

Special Processes

One...two…three..
The Tablet Count Process

The tablet count process forces the sample water to change colour based on the number of tablets added. For example (see image left) from yellow to red (Alkalinity-m / Acidity $KS_{4,3}$).

The value can easily be determined on a conversion table based on the number of tablets it takes for the colour to change.
The number of tablets to be added x 0.4 minus 0.2 provides the result depicted on the left, for example of mmol/l $KS_{4,3}$.

By changing the amount of fluid sampled, the measuring span can be changed.

Each Special Process Kit comes with a 0-100 ml sampling container, a stirring rod a cleaning brush, and at least 100 reagent tablets.

Opacity / Turbidity

Measuring opacity is striking for its simplicity. This process is offered by Pool-i.d. to measure cyanuric acid. Too much cyanuric acid will limit the ability of the disinfectant (Chlorine) to kill off bacteria. Determining this value is as important as determining chlorine values.

In measuring opacity, a syringe-like device is filled with the sampled water and a Pool-i.d. reagent tablet is added. The sample becomes opaque. On the bottom end of the plunger inside the device is a black dot. Next to the dot there are a series of intake openings. The plunger is now moved up and down until the black dot is no longer visible. At this stage the value can be read from the scale that is placed on the outside of the device.
By diluting the sample, wide measurement ranges can be achieved.

Distinguishing Features

Special Process methods as described on the following pages all use high quality reagent tablets made by Pool-i.d. in Germany, ensuring the user to always take the same amount of reagent with each tablet.

Tablets are blistered in easy to push through aluminium bilsters, providing a long shelf life for the tablets (5 years).

* Simple conversion of the test results in °dH (”German Degrees” of Carbon Hardness), °e (English degrees) and °f (French degrees).

**Simple conversion of the test results in alkaline earth ions (mmol/l), alkaline earth ions (mval/l), °dH (German degrees), °e (English degrees), °f (French degrees).

Sets

Item No.	Product Description	Measurement-Range	Tablets Count Process	Opacity Methode	Yes / No Test	100ml Container	20ml Unit	Stir. Rod	Cleaning Brush	Reagents
SVZ500*	Set to determine the **Alkalinity-M** value by the tablet count method. Measurement container and tablets in a plastic case	Alkalinity-m (10 - 500 mg/l $CaCO_3$)	•			1		1	1	Total-Alkalinity (100 tabl.)
SVZ550	Set to determine the **Alkalinity-P** value by the tablet count method. Measurement container and tablets in a plastic case	Alkalinity-p (20 - 500 mg/l $CaCO_3$)	•			1		1	1	Alkalinity-p (100 tabl.)
SVZ555	Set to determine the **Alkalinity-P** value (**$BaCl_2$**) by the tablet count method. Measurement container and tablets in a plastic case	Alkalinity-p (20 - 500 mg/l $CaCO_3$)	•			1		1	1	Alkalinity-p (50 tabl.) Alk-P ($BaCl_2$) (250 tabl./bottle)
SVZ1300**	Set to determine the **Calcium Hardness** value by the tablet count method. Measurement container and tablets in a plastic case	Calcium Hardness (10 - 500 mg/l $CaCO_3$)	•			1		1	1	Calcium Hardness (100 tabl.)
SVZ1400**	Set to determine the **Total Hardness** value by the tablet count method. Measurement container and tablets in a plastic case	Total Hardness (5 - 500 mg/l $CaCO_3$)	•			1		1	1	Total Hardness (100 tabl.)
SVJ1400	Set to determine the **Total Hardness** value by the Yes/No method. Measurement container and tablets in a plastic case	Total Hardness *(4 / 8 / 20 mg/l $CaCO_3$)*			•	1		1	1	Handness y/n (100 tabl.)
SVZ1600	Set to determine the **Chloride** value by the tablet count method. Measurement container and tablets in a plastic case	Chloride (5 - 5000 mg/l Cl^-)	•			1		1	1	Chloride (100 tabl.)
SVT1100	Set to determine the **Cyanuric Acid** value by the opacity method. Measurement container and tablets in a plastic case	Cyanuric Acid (0 - 200 mg/l)		•			1	1	1	Cyanuric Acid (100 tabl.)
SVZ1700	Set to determine the **Nitrite** value by the tablet count method. Measurement container and tablets in a plastic case	Nitrite (70 1500 mg/l $NaNO_2$)	•			1		1	1	Nitrite No. 1 (50 tabl.) Nitrite No. 2 (50 tabl.)
SVZ1800	Set to determine the **Sulphite (LR)** value by the tablet count method. Measurement container and tablets in a plastic case	Sulphite (2 - 50 mg/l Na_2SO_3)	•			1		1	1	Sulphite LR No. 1 (50 tabl.) Sulphite LR No. 2 LR (50 tabl.)
SVZ1850	Set to determine the **Sulphite (HR)** value by the tablet count method. Measurement container and tablets in a plastic case	Sulphite (10 - 500 mg/l Na_2SO_3)	•			1		1	1	Sulphite HR No. 1 (50 tabl.) Sulphite HR No. 2 HR (50 tabl.)
SVZ2700	Set to determine the **Cleaning Acid Strength** (CAS) concentration by the tablet count method. Measurement container and tablets in a plastic case	Clean. Ac. Strength (0.75 - 10.00 %)	•			1		1	1	CAS (100 tabl. -bottle-)

Accessories / Spares

Item No.	Product Description
SVTdev20	20ml turbidity unit (Cyan. Acid)
SVZdev100	100ml shaker tube
SPstr1	1 Plastic Stirring Rod (13 cm)
SPstr10	10 Plastic Stirring Rod (13 cm)
SPstr50	50 Plastic Stirring Rod (13 cm)
SPstr100	100 Plastic Stirring Rod (13 cm)
SPclb1	1 Cleaning Brush
SPclb10	10 Cleaning Brush
SPclb50	50 Cleaning Brush

SVZdev100

SVTdev20

SPstr1

Spclb1

Quality reagents made in Germany

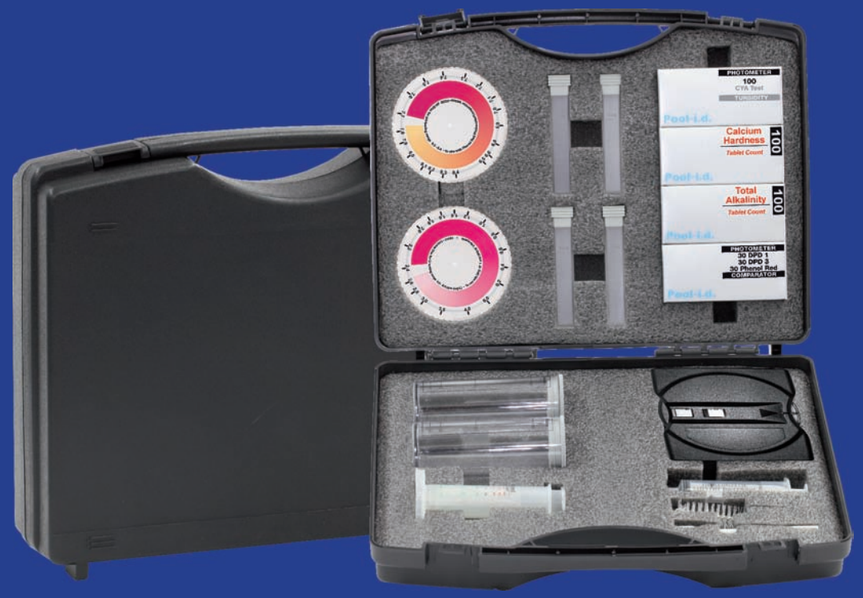
available in boxes of 50 / 100 / 200 / 250 / 500 tablets and in glass bottles of 250 tablets

				for Special Process											
Item No.	**Type**	**Category**	**Measurement-Range**	**SVZ500**	**SVZ550**	**SVZ555**	**SVZ1300**	**SVZ1400**	**SVJ1400**	**SVZ1600**	**SVT1100**	**SVZ1700**	**SVZ1800**	**SVZ1850**	**SVZ2700**
TbsRTA...	Total Alkalinity	RAPID** tabl. count	Total Alkalinity (Alk-m)/ Acid Capacity (10 - 500 mg/l $CaCO_3$ / 0.1 - 5.0 $K_{S\,4.3}$ mmol/l)	•											
TbsRAP...	Alkalinity P	RAPID** tabl. count	Alkalinity-P (20 - 500 mg/l $CaCO_3$)		•	•									
TbsHAPB...	Alk-P ($BaCl_2$)	--- tabl. count	Auxil. Tablet to Measure Alk-P			•									
TbsRCH...	Calcium Hardness	RAPID** tabl. count	Calcium Hardness (10 - 500 mg/l $CaCO_3$)				•								
TbsRTH...	Total Hardness	RAPID** tabl. count	Total Hardness (0 - 500 mg/l $CaCO_3$)					•							
TbsRTHJN...	Hardness yes/no	RAPID** Yes/No	Hardness (0 / 4 / 20 mg/l $CaCO_3$)						•						
TbsRCD...	Chloride	RAPID** tabl. count	Chloride (5 - 5000 mg/l Cl^-)							•					
TbsPCS...	Cyanuric Acid	Photometer Opacity	Cyanuric Acid (0 - 200 mg/l)								•				
TbsRNT2...	Nitrite No. 2	RAPID** tabl. count	Nitrite *(70 - 1500 mg/l $NaNO_2$)*									•			
TbsHNT1...	Nitrite No. 1	--- tabl. count	Auxil. Tablet to Measure Nitrite									•			
TbsRSPIL2...	Sulphite No. 2(LR)	RAPID** tabl. count	Sulphite *(2 - 50 mg/l Na_2SO_3)*										•		
TbsRSPIH2..	Sulphite No. 2(HR)	RAPID** tabl. count	Sulphite *(10 - 500 mg/l Na_2SO_3)*											•	
TbsHSPI1...	Sulphite No. 1	--- tabl. count	Auxil. Tablet to Measure Sulphite										•	•	
TbsRCAS...	CAS	RAPID** tabl. count	Cleaning Acid Strength (0.75 - 10.00 %)												•

** rapidly soluble / self disintegrating.

Balanced Water Kits

pH
Chlorine
Bromine
Calcium Hardness
Total Hardness
Cyanuric Acid



One kit - all in hand

Balanced Water Kits are a combination of Comparators and Special Processes, such as the tablet count method and the turbidity method, covering a wide range of applications for water testing.

Pool-i.d. offers kit combinations such as
Comparator: pH, Chlorine
Tablet count: Total Alkalinity, Calcium Hardness, Total Hardness
Turbidity: Cyanuric Acid.

Background

As a combination of the Comparator method together with Special Processes, such as the tablet count and the turbidity method, Balanced Water Kits provide the advantage of all those methods in just one kit.

Distinguishing Features

The reagent tablets for the count process are delivered in a separate box that has the same colour and is made of the same material. It in turn is inserted into the side of the measuring vessel. As a result, it doesn't take any effort to connect the different reagent tablet types with their different measurements to the box for the device.

"When the well´s dry, we know the worth of water"
(Benjamin Franklin)

Kits

Item No.	Product Description	Measurement-Range	Pool-i.d.-Comparator	Comparator-Discs	10 ml Comparator Cells	100 ml Tablet Countr Tube	20 ml Turbidity Device	10 ml Syringe	Stirring Rod	Cleaning Brush	Reagents
BWK145	Balanced Water Kit. Set to determine: • pH (Comparator Method) • Chlorine (free / total) (Comparator Method) • Total Alkalinity (Tablet Count Method) • Calcium Hardness (Tablet Count Method) In a black plastic case	pH (6.5 - 8.4) Chlorine (0.0 - 5.0 ppm) Total Alkalinity (10 - 500 ppm $CaCO_3$) Calcium Hardness (10 - 500 ppm $CaCO_3$)	1	FD50 / pH FD101 / Chlorine	4	2			1	1	Phenol Red Comp. (30 tabl.) DPD 1 Comp. (30 tabl.) DPD 3 Comp. (30 tabl.) Total Alkalinity TC (100 tabl.) Calcium Hardness TC (100 tabl.)
BWK145-11	Balanced Water Kit. Set to determine: • pH (Comparator Method) • Chlorine (free / total) (Comparator Method) • Total Alkalinity (Tablet Count Method) • Calcium Hardness (Tablet Count Method) • Cyanuric Acid (Turbidity Method) In a black plastic case	pH (6.5 - 8.4) Chlorine (0.0 - 5.0 ppm) Total Alkalinity (10 - 500 ppm $CaCO_3$) Calcium Hardness (10 - 500 ppm $CaCO_3$) Cyanuric Acid (20 - 200 ppm)	1	FD50 / pH FD101 / Chlorine	4	2	1	1	1	1	Phenol Red Comp. (30 tabl.) DPD 1 Comp. (30 tabl.) DPD 3 Comp. (30 tabl.) Total Alkalinity TC (100 tabl.) Calcium Hardness TC (100 tabl.) CYA-Test (100 tabl.)
BWK845	Balanced Water Kit. Set to determine: • pH (Comparator Method) • Bromine (total) (Comparator Method) • Total Alkalinity (Tablet Count Method) • Calcium Hardness (Tablet Count Method) In a black plastic case	pH (6.5 - 8.4) Bromine (0.0 - 10.0 ppm) Total Alkalinity (10 - 500 ppm $CaCO_3$) Calcium Hardness (10 - 500 ppm $CaCO_3$)	1	FD50 / pH FD800 / Bromine	4	2			1	1	Phenol Red Comp. (30 tabl.) DPD 1 Comp. (30 tabl.) Total Alkalinity TC (100 tabl.) Calcium Hardness TC (100 tabl.)

Accessories / Spares

Item No.	Product Description
PCP001 FD50 FD101 FD800	Pool-i.d. Comparator Comp. Disc pH (6.4 - 8.5 pH) Comp. Disc Chlorine (0.0 - 4.0 mg/l) Comp. Disc Bromine (0.0 - 10.0 mg/l)
SPkv5 SPkv10 SPkv50 SPkv100	5 x 10ml Comparator-Cell 10 x 10ml Comparator-Cell 50 x 10ml Comparator-Cell 100 x 10ml Comparator-Cell
SVTdev20	20ml Cyanuric Acid Turbidity Device
SVZdev100	100ml Tablet Count shaker tube
SPstr1 SPstr10 SPstr50 SPstr100	1 Plastic Stirring Rod (13 cm) 10 Plastic Stirring Rod (13 cm) 50 Plastic Stirring Rod (13 cm) 100 Plastic Stirring Rod (13 cm)
SPclb1 SPclb10 SPclb50	1 Cleaning Brush 10 Cleaning Brush 50 Cleaning Brush
SPinj1	10ml Syringe

SVZdev100

SVTdev20

SPstr1

SPclb1

BWK145

BWK145-11

Reagents for Balanced Water Kits

Quality reagents made in Germany

Item No.	Type	Category	Measurement Range	for Balanced Water Kit BWK145	BWK145-11	BWK845
TbsPpH...	Phenol Red	Photometer* Comparator	pH-value (6.5 - 8.4)	•	•	•
TbsPD1...	DPD N° 1	Photometer* Comparator	free Chlorine/Bromine (0.0 - 6.0 Cl ppm / 0.0 - -13.2 Br ppm)	•	•	•
TbsPD3...	DPD N° 3	Photometer* Comparator	total / combined Chlorine*** (0.0 - 6.0 Cl ppm)	•	•	
TbsRTA...	Total Alkalinity	*RAPID** Tablet Count	Total Alkalinity / Acid Capacity (10 - 500 ppm $CaCO_3$ / 0.1 - 5.0 $K_{S\,4,3}$ mmol/l)	•	•	•
TbsRCH...	Calcium Hardness	*RAPID** Tablet Count	Calcium Hardness (10 - 500 ppm $CaCO_3$)	•	•	•
TbsPCYA...	CYA-Test	Photometer* Turbidity	Cyanuric Acid (0 - 200 ppm)		•	

available in boxes of
50 / 100 / 200 / 250 / 500 tablets
and in glass bottles of 250 tablets

** rapidly soluble / self disintegrating.

*** DPD N° 1 + DPD N° 3 measure total Chlorine in the same water sample. The combined Chlorine is determined from the difference between free Chlorine (DPD N° 1) over total Chlorine (DPD N° 1 + DPD N° 3).

PRIMELAB
MULTITEST

Over 80 different methods

Sensor / optics by

JENCOLOR

"There is magic on the planet, it is contained in water."
(Loren Eisley)

Background

When a coloured reagent is added to a water sample using a conventional photometer, light is passed through the sample, with an LED at a specific wavelength, to a sensor placed on the other side of the sample which detects how much light has passed through the water sample (transmission).
From this single value on one wavelength then the water value, such as "pH 7.25", is determined, using a table previously defined in the unit.
Currently measurement of a comprehensive range of parameters on one device has required either installation of several light sources and sensors (set to specific wavelengths) or use of colour interference filters, to generate different wavelengths. Only one specific wavelength is measured using this technique only allowing limited parameters. The JENCOLOR MultiColor sensor has the required filters
already installed on the sensor itself, and measures across several channels. This enables the PrimeLab to measure all parameters that, after addition of a reagent, show a visible colour – with unprecedented precision, because the measurement is performed not "around" but precisely at the wavelength range of the sample measuring the colour in seven different scales simultaneously.
Tests have shown that the JENCOLOR sensor, once calibrated, achieves 98 % of the accuracy of a spectrometer! And all this with only 1 light source and only 1 sensor!
The PrimeLab is even future proof as you are able to add Parameters that are not installed on the device at purchase and can be conveniently installed by using
"PrimeLab Desktop Assistant" software

PrimeLab Photometer

PrimeLab 1.0 Multitest

Photometer meets Future

Photometers for electronic and highly accurate determination of water values are standard equipment in every laboratory.
Similarly, mobile phones are standard equipment in our daily lives, and yet over the past few decades they have continuously adapted to technical progress.

Do you still make calls today with a mobile phone of past generations from 10 or 20 years ago or do you prefer the benefits of smartphones with fast *Bluetooth*® wireless technology, synchronisation with your PC software, apps and many other technical advantages?

How about your photometer…? has it kept pace with technological progress, or do you still transmit your data via a serial port, an IR interface or even not at all!?
Is your data analysis restricted to predefined, parameters?
Did you have a choice of which parameters you want to measure?
Is the performance of your photometer limited to a few or even only one wavelength?

Time for a change

Pool-i.d. introduces the next generation of photometers!
Data connection via *Bluetooth*® wireless connection within seconds, similar to your smartphone in your car.

A sensor by JENCOLOR with unprecedented accuracy, able to measure all arameters where colour development is visible to the human eye after adding a reagent (visible wavelength).

Software that will offer you not only user based management of your measurement sources (e.g. pools) and related measurement data but also offer advice on adjusting the water values back to ranges defined by you. Software allowing you to easily upload additional parameters on your Photometer.

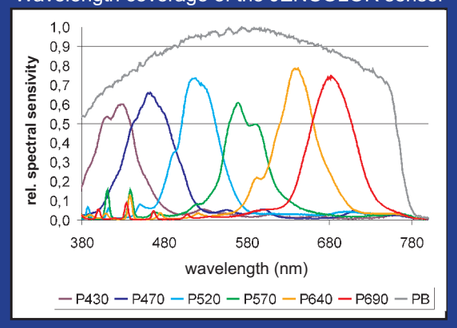
A device that auto-calibrates itself within milliseconds at the push of a button without having to return it to the manufacturer!

www.primelab.org

The Sensor

The JENCOLOR
Multiple Colour Sensor
(scale ~ 1:20)

Wavelength coverage of the JENCOLOR sensor



Colours and their wavelengths

colour	wavelength (nm)
purple	380 - 420 nm
blue	420 - 490 nm
green	490 - 575 nm
yellow	575 - 585 nm
orange	585 - 650 nm
red	650 - 750 nm

1 Light Source
1 Sensor
ALL Parameters

Sometimes little miracles happen when two completely different industries happen to meet and previously unforeseen synergies arise.

This happened when we started development of the "PrimeLab" in late 2010 with our development partner JENCOLOR.

JENCOLOR

JENCOLOR is the brand of a subsidiary of a globally renowned optics and sensor manufacturer, with its headquarters in Jena, Thuringia, Germany.
The "JENCOLOR Multiple Color" sensors are currently used in medical equipment, pre-press and even in passenger aeroplanes for LED light control of the cabin.

Technology / Colour

The Human Eye sees colour when light falls on to the subject and light waves return to the human eye.
Depending on the shape of this wave – this is called "wavelength" – we see different colours, such as red, green, etc.
The wavelengths visible to the human eye-range from 380 to 780 nm.
All colours recognizable by the eye are in this range.

The difference

When a coloured reagent is added to a water sample using a conventional photometer, light is passed through the sample, with an LED at a specific wavelength, to a sensor placed on the other side of the sample which detects how much light has passed through the water sample (transmission).
From this single value on one wavelength then the water value, such as "pH 7.25", is determined, using a table previously defined in the unit.

Currently measurement of a comprehensive range of parameters on one device has required either installation of several light sources and sensors (set to specific wavelengths) or use of colour interference filters, to generate different wavelengths. Only one specific wavelength is measured using this technique only allowing limited parameters.

The JENCOLOR MultiColor is the only one covering the complete visual wavelength of 380-780 nm, which enables the PrimeLab to measure all parameters that, after addition of a reagent, show a visible colour – with unprecedented precision, because not only one, but 100 data are received with one light shot.

PrimeLab Photometer

The Software

PrimeLab.exe

PrimeLab Desktop Assistant

One of the innovations of the "PrimeLab 1.0" is the lightning-fast wireless technology of the photometer to a Windows PC via *Bluetooth*®.

The "PrimeLab 1.0" connects instantly and automatically after each power-up, just as you know it e.g. from your smartphone when entering your car.

Each "PrimeLab 1.0" with integrated *Bluetooth*®-module is supplied with a *Bluetooth*®-USB dongle with which you can add wireless connection capability to your computer if this is not already enabled.

The Windows software "PrimeLab Desktop Assistant" is a strikingly powerful tool that allows you:

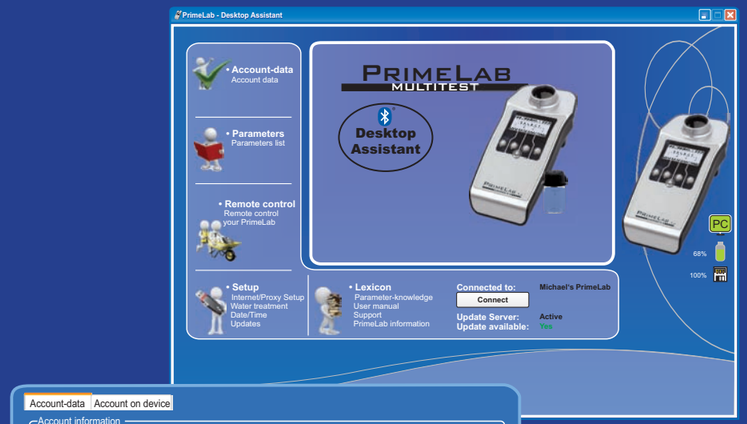
Activating further measurement methods on the PrimeLab

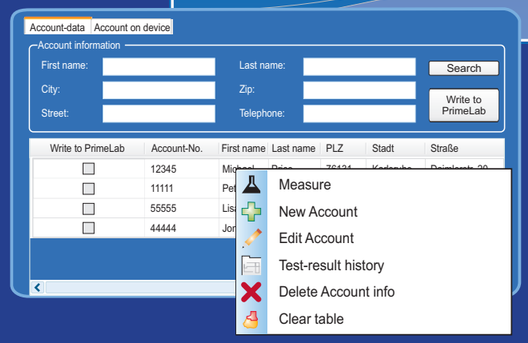
Convenient management and reporting of test results

Dosage recommendations, based on your individual water treatment chemicals

Updating the PrimeLab firm and software

Remote control your PrimeLab





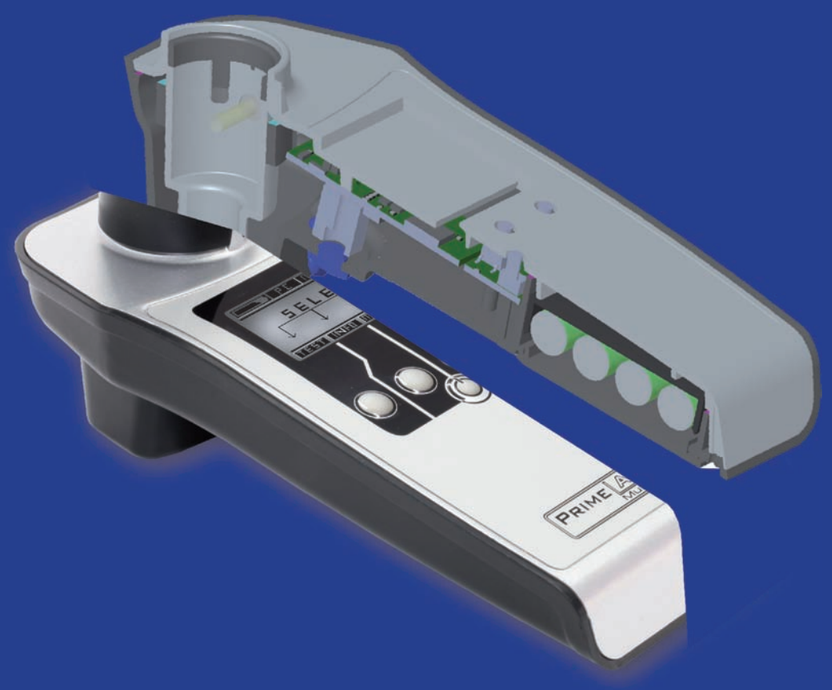
PrimeLab Photometer

Basic equipment

- PrimeLab Multitest with integrated Bluetooth module
- Black plastic case
- DC adapter (220/110 V) with interchangeable international plugs
- 4 × AAA 1.5 V batteries
- *Bluetooth*®-USB dongle for wireless connection to your PC
- CD-ROM “PrimeLab Desktop Assistant”
- 2 × 24 mm standard round cuvette (glass / 10 ml) with light absorber integrated into lid
- Light protection lid for 16 mm standard cuvettes
- 10 ml syringe
- Cleaning brush for cuvettes
- Stirring rod

Optional

- Adapter for MERCK 16 mm “Prepared“ cuvettes
- 100 ml plastic measuring tube
- Filter unit for filtering water samples



Supported by:

Federal Ministry of Economics and Technology

on the basis of a decision by the German Bundestag

ZIM impulse für wachstum Zentrales Innovationsprogramm Mittelstand

CE

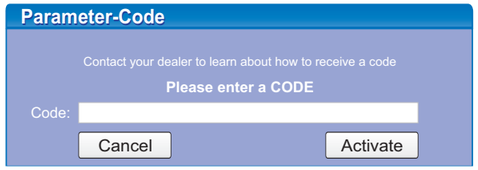
TÜV SÜD

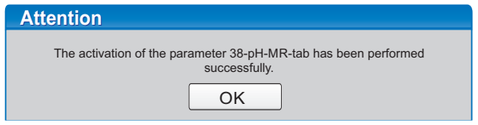
Technical details / features

Dimensions:	175 mm × 88 mm × 59 mm
Weight:	160 g
Spectral range:	380 nm – 780 nm with 7 open channels and ±40 nm overlap each
Data Transmission:	Built-in *Bluetooth*®-module
Calibration:	Auto-calibration by JENCOLOR sensor; determination of LED brightness
One Time Zero:	Intelligent OTZ (One Time Zero) function, detecting different ZERO types
Internal memory:	100 data records / 20 accounts records
Clock / Date:	RTC (real-time clock) with date function
Auto-Off:	Default = 10 minutes. Individually adjustable
Menu navigation:	Intuitive, display-controlled 4-button menu system; test instructions during the measurement process (can be skipped)
Power supply:	optionally 4 × 1.5 V AAA batteries or 100–240 V AC, 50/60 Hz, 0.2 A → 5.0 V, 1200mA, 6 W
Display:	Graphical LCD display, monochrome
Operating languages:	German, English, Spanish, French
Environment:	5 °C – 45 °C (41 °F – 113 °F) / 30 % – 90 % rel. humidity
Water resistancy:	The unit is splash-proof
Reagents:	The calibration curves of the individual parameters are matched to the reagents offered by the manufacturer. The use of reagents by other manufacturers may result in measurement errors! The scope of delivery of the PrimeLab includes solely high-quality reagents “Made in Germany” and “Made in Britain”!

Parameters List

As per 09/2013





Installed parameters/ measurement methods

The parameters / measurement methods installed on the PrimeLab may be individually defined by the user and extended at any time after purchase by entering activation codes into the software. Thus also subsequently developed measurement methods can still be installed. **The PrimeLab will never become obsolete.**

Item code	Parameter	ID	Measurement range	Resolution	Unit	Calculation	Method	Reagents
Active Oxygen								
PLPar1	Active Oxygen (MPS)	01	0 - 40	0.1	ppm (O_2)		Tablets	DPD No. 4
Alkalinity								
PLPar5	Alkalinity-M	05	5 - 200	1	ppm ($CaCO_3$) °dH/°eH/°fH/mmol/mval/$KS_{4.3}$		Tablets	Total Alkalinity
PLPar6	Alkalinity-P	06	5 - 300	1	ppm ($CaCO_3$) °dH/°eH/°fH/mmol/mval/$KS_{4.3}$		Tablets	Alkalinity-P
Aluminium								
PLPar4	Aluminium	04	0 - 0.3	0.01	ppm (Al)		Tablets Tablets	Aluminium No. 1 Aluminium No. 2
Ammonia								
PLPar2	Ammonia (LR)	02	0 - 1	0,01	ppm (N)	NH_4/NH_3	Tablets Tablets	Ammonia No. 1 Ammonia No. 2
PLPar3	Ammonia (LR)	03	0 - 2	0.01	ppm (N)	NH_4/NH_3	Powder Powder	PL Ammonia 1 PL Ammonia 2
Boron								
PLPar7	Boron	07	0 - 2	0,1	ppm (B)		Tablets Tablets	Boron No. 1 Boron No. 2
Bromine								
PLPar8	Bromine	08	0 - 13	0.01	ppm (tBr)		Tablets Tablets	DPD 1 Glycine
PLPar63	Bromine	63	0 - 13	0.01	ppm (aBr/cBr/ tBr)		Liquids Liquids Powder	PL DPD 1 A PL DPD 1 B PL DPD Nitrite
Carbohydrazide								
PLPar71	Carbohydrazide	71	0 - 1.3	0.01	ppm (CHD)		Liquids Liquids	PL Oxygen Scavenger 1 PL Oxygen Scavenger 2
Chloramines (Mono-/Di-)								
PLPar95	Chloramines	95	0 - 4	0.01	ppm (fCl/ NH_2Cl/ $NHCl_2$)		Tablets Tablets Tablets	DPD No. 1 DPD No. 2 DPD No. 3
Chloride								
PLPar10	Chloride	10	0.5 - 25	0.1	ppm (Cl-)	NaCl	Tablets Tablets	Chloride N° 1 Chloride N° 2
Chlorine								
PLPar11	Chlorine	11	0 - 8	0.01	ppm (fCL/ (cCL/tCL)		Tablets Tablets	DPD N° 1 DPD N° 3
PLPar12	Chlorine	12	0 - 8	0.01	ppm (fCL/ (cCL/tCL)		Liquids Liquids Liquids	PL DPD 1 A PL DPD 1 B PL DPD 3 C
PLPar14	Chlorine (KI) (HR)	14	5 - 200	1	ppm (Cl_2)		Tablets Tablets	Chlorine HR (Ki) Acidifying GP
PLPar15	Chlorine (KI) (HR)	15	0 - 200	1	ppm (Cl_2)		Liquids Liquids	PL Chlorine HR 1 PL Chlorine HR 2
Chlorine Dioxide								
PLPar16	Chlorine Dioxide	16	0 - 15	0.01	ppm (ClO_2)		Tablets Tablets	DPD N° 1 Glycine
PLPar64	Chlorine Dioxide	64	0 - 15	0.01	ppm (ClO_2)		Liquids Liquids Liquids	PL DPD 1 A PL DPD 1 B PL DPD Glycine
Chromium (hexavalent)								
PLPar94	Chromium	94	0 - 2.2	0.01	ppm (Cr)	CrO_4	Tablets Tablets	Chromocol N° 1 Chromocol N° 2
PLPar103	Chromium	103	0 - 1	0.01	ppm (Cr)	CrO_4	Powder Liquids	PL Chromate 1 PL Chromate 2
COD								
PLPar79	COD (LR)	79	0 - 150	1	ppm (O_2)		Prepared vials by MERCK	
PLPar80	COD (MR)	80	0 - 1500	1	ppm (O_2)		Prepared vials by MERCK	
PLPar17	COD (HR)	17	0 - 15000	1	ppm (O_2)		Prepared vials by MERCK	
Copper								
PLPar18	Copper	18	0 - 5	0.01	ppm (fCu/ cCu/tCu)		Tablets Tablets	Copper No. 1 Copper No. 2
PLPar19	Copper	19	0 - 5	0.01	ppm (fCu)		Powder	PL Copper 1
Cyanuric Acid								
PLPar20	Cyanuric Acid	20	2 - 160	1	ppm (CYA)		Tablets	CYA-Test
DBNPA								
PLPar65	DBNPA	65	0 - 13	0.01	ppm (DBNPA)		Liquids Liquids Liquids	PL DPD 1 A PL DPD 1 B PL DPD 3 C
PLPar82	DBNPA	82	0 - 13	0.01	ppm (DBNPA)		Tablets Tablets	DPD 1 Photometer DPD 3 Photometer
DEHA								
PLPar21	DEHA	21	20 - 1000	10	ppb (DEHA)	ppm	Liquids Liquids	PL Oxygen Scavenger 1 PL Oxygen Scavenger 2
Erythorbic Acid								
PLPar70	Erythorbic Acid	70	0 - 3.5	0.01	ppm (EA)		Liquids	PL Oxygen Scavenger 1 PL Oxygen Scavenger 2
Fluoride								
PLPar72	Fluoride	72	0 - 2	0.01	ppm (F)		Liquids Liquids	PL Fluoride 1 PL Fluoride 2
Hardness								
PLPar78	Hardness - Calcium	78	0 - 500	1	ppm ($CaCO_3$) °dH/°eH/°fH		Tablets Tablets	Calcium-H. N° 1 Calcium-H. N° 2
PLPar9	Hardn.- Calcium (HR)	09	50 - 1000	1	ppm ($CaCO_3$) °dH/°eH/°fH		Tablets	Calcium Hardness
PLPar56	Hardness. - Total (LR)	56	2 - 50	1	ppm ($CaCO_3$) °dH/°eH/°fH/Ca/Mg		Tablets	Total Hardness
PLPar57	Hardness. - Total (LR)	56	20 - 500	1	ppm ($CaCO_3$) °dH/°eH/°fH/Ca/Mg		Tablets	Total Hardness
Hydrazine								
PLPar23	Hydrazine	23	5 - 600	1	ppb (N_2H_4)	ppm	Liquids	PL Hydrazine 1
Hydrogen Peroxide								
PLPar66	Hydrogen Perox. LR	66	0 - 3.8	0.01	ppm (H_2O_2)		Liquids Liquids	PL Hydrogen Peroxide LR 1 PL Hydrogen Peroxide LR 2
PLPar24	Hydrogen Perox. LR	24	0 - 3	0.01	ppm (H_2O_2)		Tablets	Hyd. Peroxide LR
PLPar25	Hydrogen Perox. HR	25	0 - 200	1	ppm (H_2O_2)		Liquids Liquids	PL Hydrog. Peroxide HR 1 PL Hydrog. Peroxide HR 2
Hydroquinone								
PLPar26	Hydroquinone	26	0 - 2.5	0.01	ppm (HQN)		Liquids Liquids	PL Oxygen Scavenger 1 PL Oxygen Scavenger 2
Iodine								
PLPar27	Iodine	27	0 - 28	0.01	ppm (I)		Tablets	DPD No. 1
PLPar67	Iodine	67	0 - 28	0.01	ppm (I)		Liquids Liquids	PL DPD 1 A PL DPD 1 B
Iron								
PLPar28	Iron (LR)	28	0 - 1	0.01	ppm (Fe)		Tablets	Iron (LR)
PLPar29	Iron (MR)	29	0 - 10	0.01	ppm (Fe MR)		Powder	PL Iron MR 1
PLPar30	Iron (HR)	30	0 - 30	0.01	ppm ($Fe_{2+}/_{3+}$)		Liquids Liquids	PL Iron HR 1 PL Iron HR 2

Parameters List (continued)

Item code	Parameter	ID	Measurement range	Resolution	Unit	Calculation	Method	Reagents
Magnesium								
PLPar93	Magnesium	93	0 - 100	1	ppm (Mg)	$CaCO_3$	Tablets	Magnecol
PLPar102	Magnesium	102	0 - 100	1	ppm (Mg)	$CaCO_3$	Powder	PL Magnesium 1
Manganese								
PLPar104	Manganese	104	0 - 5	0.1	ppm (Mn)	MnO_4/$KMnO_4$	Liquids Liquids Liquids	PL Manganese 1 PL Manganese 2 PL Manganese 3
PLPar31	Manganese	31	0.2 - 4	0,1	ppm (Mn)	MnO_4/$KMnO_4$	Tablets Tablets	Manganese LR No. 1 Manganese LR No. 2
Methylethylketoxime								
PLPar69	Methylethylketoxime	69	0 - 4.1	0.01	ppm (MTX)		Liquids Liquids	PL Oxygen Scavenger 1 PL Oxygen Scavenger 2
Molybdate								
PLPar96	Molybdate (LR)	96	0 - 15	0.01	ppm (MoO_4)	Mo/Na_2MoO_4	Tablets Tablets	Molybdate LR N° 1 Molybdate LR N° 2
PLPar33	Molybdate (HR)	33	5 - 200	0.1	ppm (MoO_4)	Mo/Na_2MoO_4	Liquids	PL Molybdate 1
PLPar32	Molybdate	32	1 - 100	0.1	ppm (MoO_4)	Mo/Na_2MoO_4	Tablets Tablets	Molybdate HR No. 1 Molybdate HR No. 2
Nickel								
PLPar90	Nickel (HR)	90	0.1 - 10	0.1	ppm (Ni)		Tablets Tables	Nickel HR N° 1 Nickel HR N° 2
PLPar99	Nickel (LR)	99	0 - 1	0.01	ppm (Ni)		Powder Liquids Powder	PL Nickel LR 1 PL Nickel LR 2 PL Nickel LR 3
PLPar100	Nickel (HR)	100	0 - 10	0.1	ppm (Ni)		Liquids Liquids Liquids	PL Nickel HR 1 PL Nickel HR 2 PL Nickel HR 3
Nitrate								
PLPar34	Nitrate	34	0 - 100	0.1	ppm (N)	NO_3	Powder	PL Nitrate 1
Nitrite								
PLPar35	Nitrite (LR)	35	0 - 0.5	0.01	ppm (N)	$NaNO_2$/NO_2	Tablets	Nitrite LR
PLPar36	Nitrite (HR)	36	5 - 200	0.1	ppm ($NaNO_2$)	N/NO_2	Powder	PL Nitrite HR 1
PLPar97	Nitrite (HR)	97	0 - 1500	1	ppm ($NaNO_2$)	N/NO_2	Tablets Tablets	Nitriphot 1 Nitriphot 2
PLPar101	Nitrit (HR)	101	0 - 3000	1	ppm ($NaNO_2$)	N/NO_2	Liquids	PL Nitrite HR 2
Ozone								
PLPar37	Ozone	37	0 - 5.4	0.01	ppm (O_3/tCl/ O_3+tCl)		Tablets Tablets Tablets	DPD N° 1 DPD N° 3 Glycine
PLPar92	Ozone	92	0 - 5.4	0.1	ppm (O_3/tCl/ O_3+tCl)		Liquids Liquids Liquids Liquids	PL DPD 1 A PL DPD 1 B PL DPD 3 C PL DPD Glycine
pH								
PLPar40	pH-value (LR)	40	5.2 - 6.8	0.01	pH		Tablets	Bromocresolpurple
PLPar38	pH-value (MR)	38	6.5 - 8.4	0.01	pH		Tablets	Phenol Red
PLPar39	pH-value (MR)	39	6.4 - 8.4	0.01	pH		Liquids	PL pH 6.4-8.4
PLPar41	pH-Universal	41	5 - 11	0.1	pH (Univ)		Tablets	Universal pH
PLPar42	pH-Universal	42	4 - 11	0.1	pH (Univ)		Liquids	PL pH 4-11
Phenol								
PLPar98	Phenol	98	0 - 5	0.01	ppm (C_6H_5OH)		Tablets Tablets Tablets	Phenoltest N° 1 Phenoltest N° 2 Phenoltest N° 3
PHMB								
PLPar43	PHMB	43	2 - 60	1	ppm (PHMB)		Tablets	PHMB

New reagents are being constantly developed!
Check out www.primelab.org for the latest list!

Item code	Parameter	ID	Measurement range	Resolution	Unit	Calculation	Method	Reagents
Phosphate								
PLPar44	Phosphate (LR)	44	0 - 4	0.01	ppm (PO_4)	P/P_2O_5	Tablets Tablets	Phosphate (LR) No. 1 Phosphate (LR) No. 2
PLPar45	Phosphate (LR)	45	0 - 4	0.01	ppm (PO_4)	P/P_2O_5	Liquids Powder	PL Phosphate LR 1 PL Phosphate LR 2
PLPar46	Phosphate (HR)	46	0 - 80	0,1	ppm (PO_4)	P/P_2O_5	Tablets Tablets	Phosphate (HR) No. 1 Phosphate (HR) No. 2
PLPar47	Phosphate (HR)	47	0 - 100	0.1	ppm (PO_4)	P/P_2O_5	Liquids Liquids	PL Phosphate HR 1 PL Phosphate HR 2
Phosphonate								
PLPar87	Phosphonate	87	0 - 20	0.01	ppm (tPO_4/ PO_4/ Po_4 Org)	PBTC/NTP/HEDPA/EDTMPA/ HMDTMPA/DETPMPA/HPA	Powder Powder Liquids Powder	PL Phosphonate 1 PL Phosphonate 2 PL Phosphonate 3 PL Phosphonate 4
Polyacrylate								
PLPar85	Polyacrylate	85	1 - 30	0.1	ppm (Polyac.Ac.)	P/P_2O_5	Liquids Liquids	PL Polyacrylate 1 PL Polyacrylate 2
Potassium								
PLPar48	Potassium	48	0.7 - 12	0.1	ppm (K)		Tablets	Potassium
QAC								
PLPar83	QAC	83	25 - 150	1	ppm (QAC)		Tablets Tablets	QAC HR Acidifying GP
Silica								
PLPar49	Silica (LR)	49	0 - 5	0.01	ppm (SiO_2)	Si	Liquids Liquids Powder	PL Silica LR 1 PL Silica LR 2 PL Silica LR 3
PLPar50	Silica (HR)	50	0 - 100	1	ppm (SiO_2)	Si	Powder Powder	PL Silica HR 1 PL Silica HR 2
							Powder	PL Silica HR 3
Sodium Hypochlorite								
PLPar51	Sodium Hypochlorite	51	0.2 - 40	0.1	% (NaOCl)		Tablets Tablets	Chlorine HR (Ki) Acidifying GP
PLPar68	Sodium Hypochlorite	68	0.2 - 40	0.1	% (NaOCl)		Liquids Liquids	PL Chlorine HR 1 PL Chlorine HR 2
Sulphate								
PLPar54	Sulphate	54	5 - 100	1	ppm (SO_4)		Tablets	Sulphate
PLPar55	Sulphate	55	5 - 100	1	ppm (SO_4)		Powder	PL Sulphate 1
Sulphide								
PLPar52	Sulphide	52	0.04 - 0.5	0.01	ppm (S)	H_2S	Tablets Tablets	Sulphide No. 1 Sulphide No. 2
Sulphite								
PLPar53	Sulphite (LR)	53	0 - 5	0.1	ppm (SO_3)	Na_2SO_3	Tablets	Sulphite (LR)
PLPar86	Sulphite (HR)	86	0 - 100	1	ppm (Na_2SO_3)	SO_3	Liquids Liquids	PL Sulphite HR 1 PL Sulphite HR 2
PLPar105	Sulphite (HR)	105	0 - 500	1	ppm (SO_3)		Tablets Tablets	Sulphitest N° 1 Sulphitest N° 2
Suspended solids								
PLPar81	Suspended solids	81	0 - 750	1	ppm (TSS)		-	-
Tannic acid								
PLPar91	Tannic acid	91	0 - 100	0.1	ppm (Tan. Ac.)		Liquids Liquids	PL Tamin 1 PL Tamin 2
Triazole								
PLPar58	Triazole	58	0 - 15	0.1	ppm (Benzotr.)	Tolytriazole	Powder	PL Triazole 1
Turbidity								
PLPar59	Turbidity	59	0 - 1000	1	FAU	NTU, FTU	-	-
Zinc								
PLPar62	Zinc	62	0 - 1	0.01	ppm (Zn)		Tablets Tablets	Copper/Zinc LR EDTA

Electronic Meter

Dip and read

Using Pool-i.d.'s Electronic Meters is really easy. After calibrating, the device only needs to be switched on and held in the liquid that needs to be tested.

The device determines the measurement value promptly and shows it on the display.

The Electronic Meter should be adjusted/calibrated in regular intervals; preferably immediately prior to each measurement.
This is done by dipping the device in a sachet containing a reference liquid and then manually turning a small screw to the reference value "turning up" on the display.

Background

Without requiring additional reagents (tablets, drops, etc.), Electronic Meters offer an professional way to measure various water values, such as conductivity, salinity (total dissolved solids), and pH.

The test result is displayed on the device within seconds after dipping the device into the water sample.

The sensitive electrodes should always be kept wet and calibrated at regular intervals, preferably before each measurement, by using a reference fluid.

Both the batteries and the electrodes can be changed. The working range of the Electronic Meter is between 0 - 50°C. Depending on the model, temperature can be compensated for by determining the measurement value.

Distinguishing Features

All Pool-i.d. Electronic Meters are waterproof and can be used directly on site like in swimmingpools or in an aquarium.

Both the electrodes and the batteries can be exchanged/replaced.
Because they are calibrated manually, Pool-i.d. Electronic Meters are price-effective and are an attractive alternative to current test processes; such as, for example, Pooltesters or Comparators.
The model as shown aside comes in a leather-like pouch with a belt clip on it's back side.

"Water is H_2O, hydrogen two parts, oxygen one, but there is a third thing, that makes water and noboy knows what it is"
(D. H. Lawrence, Pansies)

Electronic Meter

Item No.	Product Description	Measurement-Range	Resolution	Precision	Calibration	Aut. Temp.-Compens.	Batteries (shelf life)	Condistions	Dimensions (Weight)	Reference Solut.
FT11	Electronic pH Meter	pH (0.0 - 14.0)	0.1 pH	+/- 0.1 pH	1 point, manual	---	3 x 1,5 V (1.000 h)	0 - 50°C, RH 100%	153 x 24 mm (45g)	7.00 pH (20ml Sachet)
FT15	Electronic pH Meter with Temperature reading	pH (0.00 - 14.00) Temp. (-5 - 50°C)	0.01 pH 0.1°C	+/- 0.1 pH +/- 1°C	1 point, manual	automatic	4 x 1,5 V (150 h)	0 - 50°C, RH 100%	195 x 95 mm (251 g)	7.00 pH (20ml Sachet)
FT20	Electronic pH Meter with Temperature reading with Humidity reading	pH (0.00 - 14.00) Temp. (-5 - 50°C) RH (10% - 99%)	0.01 pH 0.1°C 1% RH	+/- 0.1 pH +/- 1°C +/- 5% RH	1 point, manual	automatic	4 x 1,5 V (150 h)	0 - 50°C, RH 100%	195 x 95 mm (238 g)	7.00 pH (20ml Sachet)
FT34	Electronic TDS Meter (Total dissolved solids)	TDS (0 - 1999 ppm) (0.0 - 1.999 ppt)	1 ppm	+/- 2% FS	1 point, manual	automatic 0 - 50°C mit ß=2%/°C	3 x 1,5 V (250 h)	0 - 50°C, RH 100%	153 x 24 mm (45g)	1382 TDS (20ml Sachet)
FT36	Electronic TDS Meter (Total dissolved solids)	TDS (0 - 10000 ppm) (0.00 - 10.00 ppt)	0.01 ppt	+/- 2% FS	1 point, manual	automatic 0 - 50°C mit ß=2%/°C	4 x 1,5 V (250 h)	0 - 50°C, RH 100%	153 x 24 mm (45g)	6.44 TDS (20ml Sachet)
FT33	Electronic EC Meter (Electronic Conductivity)	EC (0 - 1999 µS/cm) (0.0 - 1.999 mS/cm)	1 µS/cm	+/- 2% FS	1 point, manual	automatic 0 - 50°C mit ß=2%/°C	3 x 1,5 V (250 h)	0 - 50°C, RH 100%	153 x 24 mm (45g)	1413 µS/cm (20ml Sachet)
FT35	Electronic EC Meter (Electronic Conductivity)	EC (0 - 19990 µS/cm) (0.00 - 19.99 mS/cm)	0.01 mS/cm	+/- 2% FS	1 point, manual	automatic 0 - 50°C mit ß=2%/°C	3 x 1,5 V (250 h)	0 - 50°C, RH 100%	153 x 24 mm (45g)	12.88 mS/cm (20ml Sachet)
FT40	Electronic Meter for pH-, ORP-(Redox) and Temperature	pH *(0.00 - 14.00)* ORP *(+/-1999mV)* Temp. *(0 - 50°C)*	0.01 pH 1 mV 0.1°C	+/- 0.1 pH +/- 5mV +/- 1°C	1 point, manual	automatic 0 - 50°C mit ß=2%/°C	4 x 1,5 V (150 h)	0 - 50°C, RH 100%	170 x 40 mm (100g)	7.00 pH (20ml) 468 mV (100ml)

FT11

Reference Solutions / Spares

Item No.	Product Description	for Electronic Meter FT11	FT15	FT20	FT33	FT34	FT35	FT36	FT40
EMphbuf700	Ref. Solution “7.00 pH” (20 ml Sachet)	•	•	•					•
EMtdsbuf1382	Ref. Solution “1382 ppm TDS” (20 ml Sachet)					•			
EMtdsbuf644	Ref. Solution “6.44 ppt TDS” (20 ml Sachet)							•	
EMecbuf1413	Ref. Solution “1413 µS/cm EC” (20 ml Sachet)				•				
EMecbuf1288	Ref. Solution “12.88 mS/cm EC” (20 ml Sachet)						•		
EMorpbuf468	Ref. Solution “468mV“ (100ml bottle)								•
SPbat3	(3 x) 1,5 V Battery	•	•	•	•	•	•	•	•
SPbat30	(30 x) 1,5 V Battery	•	•	•	•	•	•	•	•

FT40

FT15

FT20

Bacteria testing

Dipslides with flexible paddle

The definition of a dipslide is a means of testing the microbial content of liquids or surfaces. It consists of a plastic carrier bearing a sterile culture medium which can be dipped in the liquid or pressed on to the surface to be sampled.
It is than incubated for 48 hours at 30°C to allow microbial growth.

The resulting microbial colonies are estimated by reference to a chart. If the treatment programme is effective, the dipslide count will be consistently low ($<10^4$). If a high result is obtained, the test should be repeated and the treatment programme checked.

Pool-i.d. dipslides for bacterial testing are provided as 10 dipslides in a box.
A variety of incubators is offered as well.

Background

Bacteria testing is mostly common for detecting slime forming bacteria in cooling & industrial waters, storage tanks as well as in metal-working fluids, paper processing waters, fuel tanks etc.

Public swimming pools do also often test on legionella and other bacterias to get a better idea about how effective desinfectants are which are used.

Distinguishing Features

The flexible paddle allows convenient surface testing.

Quality products made in the UK

Dipslide Tests

Item No.	Product Description	quantity of tests per pack
BactD002	Dipslide Test for Total Aerobic Bacteria and Yeast/Moulds Flexible paddle for effective surface contact	10
BactD004	Dipslide Test for Total Aerobic Bacteria and Coliforms/Enterobacteriacae Flexible paddle for effective surface contact	10
BactD005	Dipslide Test for Total Aerobic Bacteria and Pseudomonas Aeruginosa Flexible paddle for effective surface contact	10

Flexible Paddle

10 Dip Slides per pack

BactEDT055

Incubators

Item No.	Product Description	Maximum dipslide qty	Voltage
BactEDT057	Incubator for 2 Dipslide Tests. With Temperature reading.	2	110 / 220 V
BactEDT-12V	12V car adapter for BactEDT057 incubator		12 V
BactEDT055	Incubator for 8 Dipslide Tests. With thermostat.	8	12 / 110 / 220 V

Knowledgebase

**Tired of searching for the right device to test an important parameter?
Visit www.pool-id.com and browse under the service section, where you will find all devices and methods suitable for the parameter you want to test.**

www.pool-id.com
www.primelab.org

Find up to date information about test procedures, parameter knowledgebase, latest PrimeLab software, manuals, pictures, safety data sheets and useful hints under www.pool-id.com as well as www.primelab.org

Terms and Conditions

of Pool-i.d. GmbH (Germany) and Pool-i.d. UK Ltd. / Water-i.d. UK Ltd.

GTC - General Terms and Conditions

§1 Coverage
1. Contracts will be concluded explicitly on the basis of these Terms and Conditions (furthermore mentioned as T &C).
2. For contracts with commercial customers these T&C will be the sole basis of all future performances and deliveries, even if the incorporation will not be explicitly agreed upon.
3. Any conditions of the customer which diverge herefrom shall not apply.
4. Consumers as defined by these T&C are natural individuals with whom contracts can be concluded, these persons do not necessarily have to carry out a self-employed or commercial professional occupation. Entrepreneurs as defined by these T&C are natural or legal individuals or corporations of individuals with legal competency with whom we start business relations and who act in their practice of a self-employed or commercial professional occupation. Customers are defined by these T&C as consumers and commercial customers according to §1 No. 4 of these T&C.

§ 2 Realization of contracts
1. A contract is reached through a written confirmation of the order by us or when the first fulfillment of business is concluded and therefore both parties and their legal successors will be binding.
2. Our offers as well as the information regarding stock and delivery times with respect to the sale of products are subject to alteration.
3. If a customer's order reaches us by electronic means we will immediately confirm the order in writing. The proof of delivery is not automatically an acceptance of this order. The wording of the contract will be stored and it will be sent if requested by the customer by email along with these T&C.
4. Collateral agreements, alterations and amendments require an approval in writing from our side in order to come into effect. The same applies to the waiver of written agreements.

§ 3 Estimates
1. If the customer requests a binding price indication- a written estimate needs to be issued. This comprises the amount of work, all the materials needed to complete the work- these have to be listed individually and have to bear the respective price indication. After the handing in this estimate is a binding agreement for us up to four weeks.
2. Estimates are only liable for costs upon agreement.
3. Preliminary work like: the writing of a detailed estimates, project planning documents, drawings, models, samples, etc. which are requested by the customer are also only liable for costs upon agreement.
4. If an order which is based on an estimate is issued, eventual costs for the estimate and costs of eventual preliminary work will be balanced against the invoice.

§ 4 Prices
1. The prices for our works and deliveries are mentioned in the offer.
2. The prices mentioned in the offer are binding for a period of 3 months after entering the agreement. If the delivery or the work should be carried out 3 months after entering the agreement, the prices for materials, salaries, or the transport costs will be increased with mutual consultation these prices can be adjusted within a reasonable scope. In the event that the delivery or work is delayed due to circumstances for which we are not responsible, the before written sentence is valid also.
3. Subsequent work which is requested by the customer and which is not mentioned in the agreement will be charged for additionally. The same is valid for unforeseen work. The customer will be informed immediately about additional costs.
4. Should difficulties arise through the execution of our work for which we are not responsible, the costs which result hereof entitle us to charge additionally.

§ 5 Payment conditions, balancing, conveyance
1. Payment for products and deliveries except services and factory works is due within 14 days after receipt of the goods. After this deadline the customer is in default. In the case of service and factory work the invoice amount is due for payment according to special payment conditions. After the expiry of this time-limit the customer is in default.
2. We grant a 2% discount if the payment is made in cash within 10 days. The discount is calculated by the amount of invoice plus the V.A.T. valid at this time. As far as the acceptance of cheques is concerned it is only in lieu of payment but not a fulfilment of payment. In cases like this we are not responsible for the punctual presentation or protest.
The costs of the discounting and drawing go to the debit of the customer, he has to refund these costs immediately upon request.
3. In the event of payment default the customer shall pay interest on our claims of 5% above the basic interest rate, commercial customers shall pay 8% interest above the basic interest rate. We reserve the right to put forward a higher claim for damages of default caused by commercial customers. The customer is obliged to compensate us for any damages resulting from his default. This also applies to costs resulting from legal actions / legal execution.
4. The customer has the right to balance if the counter-claim has been assessed by law or has been ascertained through us.
5. The customer can only practice a lien if the counter-claim is based on the same contractual relationship.
6. Partial work can be charged separately if this demand can be met by the customer.
7. The conveyance of claims towards us is excluded.

§ 6 Delivery and work not adduced under the terms of the contract
1. Delivery and work deadlines are only binding if these are the content of a written offer or a written order confirmation issued by us. After expiry of the binding delivery and work deadline the customer has to grant us a written extension of 14 days. After the unsuccessful expiry of this extension the customer is entitled to withdraw from the contract. The mentioned deadlines bear a relationship with the time and place of delivery from our company headquarter or the commencement of the work.
2. Delivery and work deadlines automatically extend in the case of unforeseen events or an act of force majored, like strikes, lock-outs, service breakdowns, precautions taken by the authorities, weather conditions etc. if these have a tremendous influence on our deliveries or work. Endure these obstacles for more than a month or does the endurance of these obstacles hinder the delivery or work lastingly than both parties are entitled to withdraw from the contract.
3. In the case of uncompleted orders and alterations demanded by the customer he cannot rely on a fixed completion deadline as far as these are still reasonable.
4. For the deliveries of special models, as well as variations from brochure material, catalogue specifications, samples or illustrations or otherwise stipulated features, we act with the proviso that with these alterations the delivered goods do not lose on operativeness and overall appearance and are therefore acceptable to the customer.

§ 7 Transfer of risk and transport
1. If the customer is a commercial customer the transfer of risk of possible destruction or of the possible deterioration of the delivery takes place at the handing over. If mail-ordered goods have to be dispatched the transfer of risk is passed over to the forwarding agent, hauler or any other person/authority responsible for the transport at the time of delivery.
2. If the customer is the consumer the transfer of risk of possible destruction or of the possible deterioration is passed over to the customer with delivery when mail-ordered goods are dispatched.
3. We insure the goods in the case of a mail order only upon customer's request and expense.

4. It is not relevant at the handover if the customer delays the acceptance.
5. Visible transport damages have to be reported immediately in writing to the dispatcher.
6. The goods will be sent at the customer's expense. Surcharges resulting from a specific means of transport should be paid by the party who demands these means of transport.

§ 8 Reservation of title
1. We reserve the right of ownership in the items to be delivered until payment in full of the purchase price including the charges for any additional services is made. Without our written consent the customer is not allowed to mortgage or to transfer the goods either in its original or in its altered condition.
2. Until the payment in full has been made the customer has to handle the goods carefully and in the event of repossession, damage or loss of the goods he has to inform us immediately.
3. The customer is obliged to inform us immediately in writing if impairment of the rights of reservation of title (e.g.: global cession or legal execution) is about to be carried out or already carried out.
4. In the event of a repossession carried out by a third party, the customer is obliged to refund the costs of the legal procedures in this matter. If requested, a reasonable advance has to be paid. Bailiffs or third parties have to be informed about the state of ownership.
5. Actions taken by the customer which are contrary to the terms of the agreement result in the re-acceptance after hortatory proceedings and the setting of a time-limit and the customer is obliged to return the goods.
6. The customer is entitled to sell the goods in normal business affairs; future payments to the customer resulting from the re-sale of the goods have to be transferred to us immediately until the amount arising from sale of the reserved goods has entirely covered our claims as defined in digit 1.
7. We are obliged to re-transfer the secured and ceded payment as long as the customer has satisfied his payment obligations duly. Surmounts the amount of the payment 20% in our favour we are obliged to re-transfer/release the secured payments if the customer requests this.
8. Secured payments can revocable be collected by the customer; he is obliged to manage the received payments in trust and to pay those off in our favour.
9. Furthermore it shall be allowed to the customer to use these reserved goods only in the context of ordinary business affairs. Any processing of the reserved goods shall be in our name. If our property is installed in goods of third parties we shall become co-owners of the newly created product in relation to the value of the reserved goods. The customer safeguards this joint-property in trust in our name.

§ 9 Rescission rights of the company Pool-i.d.
The following reasons allow us to retire from the contract:
1. If the customer is not creditworthy which was not known before signing the contract. Credit unworthiness can be stated in the event of cheque- or bill-protest, the suspension of payment by the customer or a fruitless legal execution of the customer. It is not necessary that these are relations between us and the customer.
2. If it comes to light that the customer made incorrect declarations in respect of his trustworthiness and these declarations are from substantial importance.
3. If the reserved goods are sold by other means than within the context of ordinary business affairs, especially by means of mortgage or transfer of title the only exception of this rule is that we have declared our consent to sell the goods, in writing.
4. If the customer is in default with a due payment.
5. Furthermore we are entitled to withdraw from the contract if the customer has not demanded the delivery of the purchased goods until the expiry of the deadline of supply. Further claims shall herewith not be affected.

§ 10 Warranty
1. The warranty timeframe for customers is 2 years from the receipt of the goods, for commercial customers it is 1 year from the receipt of the goods. (Charge number)
2. Is the customer the consumer he has the choice to demand a compensation delivery. But we also have the right to decline this form of post compensation if it results in excessively high costs or if there is already a latest product type in the market which provides a remedy for this deficiency.
3. In the event of an unsuccessful remedy of the deficiency or if we are not in a position to offer a faultless version of the product the customer has the right to withdraw from the contract or to demand an adequate reduction of the compensation.
4. The right of withdrawal from the contract is not applicable if there are only minor deficiencies in question.
5. If the customer makes use of his right of withdrawal, he has no right to claim compensation for this deficiency.
6. Is the customer a commercial customer our publicly voiced opinions, praises or advertisements form no contractual condition of the actual product; this also applies to variations from samples/parts.

7. Warranties in the applicability of the law are not given to the customer unless these warranties are put in writing.
8. We do not provide guarantee (indemnity) for damages and malfunctions which occurred due to inappropriate handling, and/or false operation, and/or non-compliance with our instruction manual/s, undertaken by distributors, retailer or customer.
9. The damage of the seal of the product forms an obligation to buy the product.
10. Is the customer a commercial customer, he has to check the quality and quantity of received goods immediately. Obvious deficiencies have to be put in writing within a period of 1 week from receipt of the goods otherwise the claim of acceptance of guarantee will be excluded. The time-limit shall here be the dispatch in due time.
11. Commercially available variations in quality, weight, equipment, surface, pattern and color cannot be accepted as a deficiency.
12. Changes in the style and composition of the used materials, in the arrangement and in the equipment of the products resulting from technical or other advancements which create improved or same qualities in the products will be reserved at any time and do not provide the grounds to put forward claims of warranty. This also applies to variations in the color (e.g. indicator measuring).

§ 11 Liability
a. Our liability is restricted to cases of minor negligent violation of duty in the scope of average damage which is a foreseeable, typical and immediate one for the type of product either by us or by one of our legitimate representatives and workers. This is not valid for damages caused by delay.
b. The exclusion of liability applies if the customer is a commercial customer and if minor negligence of violation of duty is the case.
c. The above mentioned liability restrictions shall not apply to provisions of the Product Liability Act (Produkthaftungsgesetz) made by the customer. Furthermore the liability restrictions shall not apply to us or our legal representatives or workers who caused personal injury and health hazards or in the case of the loss of life of the customer.
d. Liability claims regarding the deficiency of a product have to be put forward by the customer within a time-limit of one year from delivery of the goods. This does not apply in the event of gross negligence, malicious intent or criminal intent.

§ 12 Final Provisions
1. German law shall apply exclusively.
2. If the customer is a merchant, a corporate body of public law or a body of legal public special assets we are entitled to sue the customer with respect and content to this contract . Forum shall be Karlsruhe (Germany).
3. If the customer intends to convey his rights originating from this contract he needs our written consent.
If individual provisions of these AGB (T&C) should be or become invalid this shall not affect the validity of the other provisions. In such an event tha parties involved are obliged to jointly establish effective substitute provisions which reflect as closely as possible the economic intent of the ineffected provision.

Shipping- and Payment-Conditions

The offered prices are “EXW 76344 Eggenstein/Germany”. Shipping costs will be added.

The payment conditions for sales outside of Germany are: “In advance”